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ABSTRACT OF THE DISCLOSURE

A method and system for determining a load exerted on a tyre fitted on a vehicle during the running of the vehicle on a rolling surface. The tyre has an equatorial plane. A concave upward function $F_z = F_z(PL_c)$ of the tyre load versus the length of a contact region is provided between the tyre and the rolling surface. The length (PL_c) is estimated substantially at the equatorial plane and the tyre load corresponding to said estimated length is derived from the function.